

~~~~~

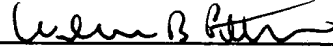
Examiner: Unknown

William B. Rott  
Signature

## 1

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/WEAT/0023.C2/WBP.

Respectfully submitted,



---

William B. Patterson  
Registration No. 34,102  
MOSER, PATTERSON & SHERIDAN, L.L.P.  
3040 Post Oak Blvd. Suite 1500  
Houston, TX 77056  
Telephone: (713) 623-4844  
Facsimile: (713) 623-4846  
Attorney for Applicant(s)

|                                                                                      |  |                              |                              |
|--------------------------------------------------------------------------------------|--|------------------------------|------------------------------|
| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  | Docket No.<br>WEAT/0023.C2   | Serial No.<br>UNKNOWN        |
| LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT                                  |  | Applicant<br>Metcalf, et al. | Confirmation No.:<br>UNKNOWN |
| (Use several sheets if necessary)                                                    |  | Filing Date<br>HEREWITH      | Group<br>UNKNOWN             |
| Examiner Unknown                                                                     |  |                              |                              |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
|                   | A1  | 6,571,672       | 06/03/2003 | Rudd              | 83    | 36       |                            |
|                   | A2  | 6,543,552       | 04/08/2003 | Metcalf, et al.   | 175   | 57       |                            |
|                   | A3  | 6,527,049       | 03/04/2003 | Metcalf, et al.   | 166   | 277      |                            |
|                   | A4  | 6,457,533       | 10/01/2002 | Simpson           | 166   | 380      |                            |
|                   | A5  | 6,457,532       | 10/01/2002 | Simpson           | 166   | 380      |                            |
|                   | A6  | 6,454,013       | 09/24/2002 | Metcalf           | 166   | 382      |                            |
|                   | A7  | 6,446,323       | 09/10/2002 | Metcalf, et al.   | 29    | 523      |                            |
|                   | A8  | 6,425,444       | 07/30/2002 | Metcalf, et al.   | 166   | 387      |                            |
|                   | A9  | 6,325,148       | 12/04/2001 | Trahan, et al.    | 166   | 297      |                            |
|                   | A10 | 6,098,717       | 08/08/2000 | Bailey, et al.    | 166   | 382      |                            |
|                   | A11 | 6,070,671       | 06/06/2000 | Cumming, et al.   | 166   | 381      |                            |
|                   | A12 | 6,029,748       | 02/29/2000 | Forsyth, et al.   | 166   | 380      |                            |
|                   | A13 | 6,021,850       | 02/08/2000 | Wood, et al.      | 166   | 380      |                            |
|                   | A14 | 5,979,571       | 11/09/1999 | Scott, et al.     | 175   | 61       |                            |

**Foreign Patent Documents**

| *Examiner Initial |    | Document Number | Date       | Country | Class | Subclass | Translation              |                                     |
|-------------------|----|-----------------|------------|---------|-------|----------|--------------------------|-------------------------------------|
|                   |    |                 |            |         |       |          | YES                      | NO                                  |
|                   | B1 | EP 0 961 007 A2 | 12/01/1999 | EP      | E21B  | 33/10    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B2 | WO 99/23354     | 05/14/1999 | WIPO    | E21B  | 43/10    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B3 | WO 99/18328     | 04/15/1999 | WIPO    | E21B  | 23/01    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B4 | 2 329 918 A     | 04/07/1999 | UK      | E21B  | 43/10    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B5 | WO 99/02818     | 01/21/1999 | WIPO    | E21B  | 43/10    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**OTHER ART**

| *Examiner Initial |    | Including Author, Title, Date, Pertinent Pages, Etc.                                                             |
|-------------------|----|------------------------------------------------------------------------------------------------------------------|
|                   | C1 | International Preliminary Examination Report, International Application No. PCT/GB99/04365, dated March 23, 2001 |
|                   | C2 | PCT Partial International Search, International Application No. PCT/GB00/04160, dated February 2, 2001           |

Examiner

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

|                                                            |  |                              |                                 |
|------------------------------------------------------------|--|------------------------------|---------------------------------|
| U.S. Department of Commerce, Patent and Trademark Office   |  | Docket No.                   | Serial No.                      |
| (PTO Form 1449 modified)                                   |  | WEAT/0023.C2                 | UNKNOWN                         |
| <b>LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b> |  | Applicant<br>Metcalf, et al. | Confirmation<br>No.:<br>UNKNOWN |
| (Use several sheets if necessary)                          |  | Filing Date                  | Group                           |
| Examiner Unknown                                           |  | HEREWITH                     | UNKNOWN                         |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
|                   | A15 | 5,472,057       | 12/05/1995 | Winfree           | 175   | 57       |                            |
|                   | A16 | 5,435,400       | 07/25/1995 | Smith             | 175   | 61       |                            |
|                   | A17 | 5,409,059       | 04/25/1995 | McHardy           | 166   | 208      |                            |
|                   | A18 | 5,960,895       | 10/05/1999 | Chevallier et al. | 175   | 27       |                            |
|                   | A19 | 5,924,745       | 07/20/1999 | Campbell          | 285   | 90       |                            |
|                   | A20 | 5,901,789       | 05/11/1999 | Donnelly et al.   | 166   | 381      |                            |
|                   | A21 | 5,901,787       | 05/11/1999 | Boyle             | 166   | 135      |                            |
|                   | A22 | 5,887,668       | 03/30/1999 | Haugen et al.     | 175   | 79       |                            |
|                   | A23 | 5,785,120       | 07/28/1998 | Smalley et al.    | 166   | 55       |                            |
|                   | A24 | 5,706,905       | 01/13/1998 | Barr              | 176   | 61       |                            |
|                   | A25 | 5,685,369       | 11/11/1997 | Ellis et al.      | 166   | 195      |                            |
|                   | A26 | 5,667,011       | 09/16/1997 | Gill et al.       | 166   | 295      |                            |
|                   | A27 | 5,636,661       | 06/10/1997 | Moyes             | 137   | 614.2    |                            |

**Foreign Patent Documents**

| *Examiner Initial |     | Document Number | Date       | Country | Class | Subclass | Translation              |                                     |
|-------------------|-----|-----------------|------------|---------|-------|----------|--------------------------|-------------------------------------|
|                   |     |                 |            |         |       |          | YES                      | NO                                  |
|                   | B6  | 2 320 734 A     | 07/01/1998 | UK      | E21B  | 33/127   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B7  | WO 98/00626     | 01/08/1998 | WIPO    | E21B  | 43/10    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B8  | WO 97/21901     | 06/19/1997 | WIPO    | E21B  | 17/08    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B9  | WO 94/25655     | 11/10/1994 | WIPO    | D04C  | 1/06     | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B10 | WO 93/25800     | 12/23/1993 | WIPO    | E21B  | 43/10    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**OTHER ART**

| *Examiner Initial |    | Including Author, Title, Date, Pertinent Pages, Etc.                                               |
|-------------------|----|----------------------------------------------------------------------------------------------------|
|                   | C3 | PCT International Search Report, International Application No. PCT/GB99/04246, dated March 3, 2000 |
|                   | C4 | International Search Report, International Application No. PCT/GB99/04365, dated March 3, 2000     |
|                   | C5 | Hart's International Petroleum Engineer, cover page and pages 60 – 63, dated October 1996          |

|          |                 |
|----------|-----------------|
| Examiner | Date Considered |
|----------|-----------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------|---------------|----------------------|------------------------------|----------|---------------------------------|-------------------------------------|
| U.S. Department of Commerce, Patent and Trademark Office                                                                                                                                                                                  |     |                                                      |               |                      | Docket No.                   |          | Serial No.                      |                                     |
| (PTO Form 1449 modified)                                                                                                                                                                                                                  |     |                                                      |               |                      | WEAT/0023.C2                 |          | UNKNOWN                         |                                     |
| <b>LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b>                                                                                                                                                                                |     |                                                      |               |                      | Applicant<br>Metcalf, et al. |          | Confirmation<br>No.:<br>UNKNOWN |                                     |
| (Use several sheets if necessary)                                                                                                                                                                                                         |     |                                                      |               |                      | Filing Date                  |          | Group                           |                                     |
| Examiner Unknown                                                                                                                                                                                                                          |     |                                                      |               |                      | HEREWITH                     |          | UNKNOWN                         |                                     |
| <b>U.S. Patent Documents</b>                                                                                                                                                                                                              |     |                                                      |               |                      |                              |          |                                 |                                     |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Document<br>Number                                   | Issue<br>Date | Applicant(s)<br>Name | Class                        | Subclass | Filing Date If<br>Appropriate   |                                     |
|                                                                                                                                                                                                                                           | A28 | 5,560,426                                            | 10/01/1996    | Trahan et al.        | 166                          | 120      |                                 |                                     |
|                                                                                                                                                                                                                                           | A29 | 5,553,679                                            | 09/10/1996    | Thorp                | 175                          | 73       |                                 |                                     |
|                                                                                                                                                                                                                                           | A30 | 5,520,255                                            | 05/28/1996    | Barr et al.          | 175                          | 24       |                                 |                                     |
|                                                                                                                                                                                                                                           | A31 | 5,366,012                                            | 11/22/1994    | Lohbeck              | 166                          | 277      |                                 |                                     |
|                                                                                                                                                                                                                                           | A32 | 5,348,095                                            | 09/20/1994    | Worrall et al.       | 166                          | 380      |                                 |                                     |
|                                                                                                                                                                                                                                           | A33 | 5,322,127                                            | 06/21/1994    | McNair et al.        | 166                          | 313      |                                 |                                     |
|                                                                                                                                                                                                                                           | A34 | 5,307,879                                            | 05/03/1994    | Kent                 | 166                          | 382      |                                 |                                     |
|                                                                                                                                                                                                                                           | A35 | 5,301,760                                            | 04/12/1994    | Graham               | 175                          | 61       |                                 |                                     |
|                                                                                                                                                                                                                                           | A36 | 5,271,472                                            | 12/21/1993    | Leturno              | 175                          | 107      |                                 |                                     |
|                                                                                                                                                                                                                                           | A37 | 5,267,613                                            | 12/07/1993    | Zwart et al.         | 166                          | 178      |                                 |                                     |
|                                                                                                                                                                                                                                           | A38 | 5,156,209                                            | 10/20/1992    | McHardy              | 166                          | 324      |                                 |                                     |
|                                                                                                                                                                                                                                           | A39 | 5,052,849                                            | 10/01/1991    | Zwart                | 403                          | 300      |                                 |                                     |
|                                                                                                                                                                                                                                           | A40 | 5,052,483                                            | 10/01/1991    | Hudson               | 166                          | 55       |                                 |                                     |
| <b>Foreign Patent Documents</b>                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                                     |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Document<br>Number                                   | Date          | Country              | Class                        | Subclass | Translation                     |                                     |
|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          | YES                             | NO                                  |
|                                                                                                                                                                                                                                           | B11 | WO 93/24728                                          | 12/09/1993    | WIPO                 | E21B                         | 17/10    | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                           | B12 | DE 4133802                                           | 10/22/1992    | Germany              | B09B                         | 1/00     | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                           | B13 | WO 92/01139                                          | 01/23/1992    | WIPO                 | E21B                         | 17/08    | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                           | B14 | 2 216 926 A                                          | 10/18/1989    | UK                   | E21B                         | 7/20     | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                           | B15 | DE 3213464                                           | 10/13/1983    | Germany              | B23D                         | 45/12    | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
| <b>OTHER ART</b>                                                                                                                                                                                                                          |     |                                                      |               |                      |                              |          |                                 |                                     |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Including Author, Title, Date, Pertinent Pages, Etc. |               |                      |                              |          |                                 |                                     |
|                                                                                                                                                                                                                                           | C6  |                                                      |               |                      |                              |          |                                 |                                     |
|                                                                                                                                                                                                                                           | C7  |                                                      |               |                      |                              |          |                                 |                                     |
|                                                                                                                                                                                                                                           | C8  |                                                      |               |                      |                              |          |                                 |                                     |
| Examiner                                                                                                                                                                                                                                  |     |                                                      |               |                      | Date Considered              |          |                                 |                                     |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |     |                                                      |               |                      |                              |          |                                 |                                     |

|                                                          |  |                              |                                 |
|----------------------------------------------------------|--|------------------------------|---------------------------------|
| U.S. Department of Commerce, Patent and Trademark Office |  | Docket No.                   | Serial No.                      |
| (PTO Form 1449 modified)                                 |  | WEAT/0023.C2                 | UNKNOWN                         |
| LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT      |  | Applicant<br>Metcalf, et al. | Confirmation<br>No.:<br>UNKNOWN |
| (Use several sheets if necessary)                        |  | Filing Date                  | Group                           |
| Examiner Unknown                                         |  | HEREWITH                     | UNKNOWN                         |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name   | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|---------------------|-------|----------|----------------------------|
|                   | A41 | 5,014,779       | 05/14/1991 | Meling et al.       | 166   | 55.7     |                            |
|                   | A42 | 4,997,320       | 03/05/1991 | Hwang               | 408   | 22       |                            |
|                   | A43 | 4,976,322       | 12/11/1990 | Abdrakhmanov et al. | 175   | 57       |                            |
|                   | A44 | 4,883,121       | 11/28/1989 | Zwart               | 166   | 217      |                            |
|                   | A45 | 4,866,966       | 09/19/1989 | Hagen               | 72    | 75       |                            |
|                   | A46 | 4,848,469       | 07/18/1989 | Baugh et al.        | 166   | 382      |                            |
|                   | A47 | 4,807,704       | 02/28/1989 | Hsu et al.          | 166   | 313      |                            |
|                   | A48 | 4,697,640       | 10/06/1987 | Szarka              | 166   | 120      |                            |
|                   | A49 | 4,626,129       | 12/02/1986 | Kothmann et al.     | 405   | 43       |                            |
|                   | A50 | 4,588,030       | 05/13/1986 | Blizzard            | 166   | 120      |                            |
|                   | A51 | 4,581,617       | 04/08/1986 | Yoshimoto et al.    | 346   | 108      |                            |
|                   | A52 | 4,567,631       | 02/04/1986 | Kelly               | 29    | 157.3    |                            |
|                   | A53 | 4,531,581       | 07/30/1985 | Pringle et al.      | 166   | 120      |                            |

**Foreign Patent Documents**

| *Examiner Initial |     | Document Number | Date       | Country | Class | Subclass | Translation              |                                     |
|-------------------|-----|-----------------|------------|---------|-------|----------|--------------------------|-------------------------------------|
|                   |     |                 |            |         |       |          | YES                      | NO                                  |
|                   | B16 | 1 582 392       | 01/07/1981 | UK      | B21D  | 39/10    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B17 | 1 457 843       | 12/08/1976 | UK      | B21D  | 39/10    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B18 | 1 448 304       | 09/02/1976 | UK      | E21B  | 33/13    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B19 | 1 277 461       | 06/14/1972 | UK      | B21D  | 39/04    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B20 | 997,721         | 07/07/1965 | UK      | B21D  | F 06 1   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**OTHER ART**

| *Examiner Initial |     | Including Author, Title, Date, Pertinent Pages, Etc. |
|-------------------|-----|------------------------------------------------------|
|                   | C9  |                                                      |
|                   | C10 |                                                      |
|                   | C11 |                                                      |

Examiner

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------|---------------|----------------------|------------------------------|----------|---------------------------------|-------------------------------------|
| U.S. Department of Commerce, Patent and Trademark Office                                                                                                                                                                                  |     |                                                      |               |                      | Docket No.                   |          | Serial No.                      |                                     |
| (PTO Form 1449 modified)                                                                                                                                                                                                                  |     |                                                      |               |                      | WEAT/0023.C2                 |          | UNKNOWN                         |                                     |
| <b>LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b>                                                                                                                                                                                |     |                                                      |               |                      | Applicant<br>Metcalf, et al. |          | Confirmation<br>No.:<br>UNKNOWN |                                     |
| (Use several sheets if necessary)                                                                                                                                                                                                         |     |                                                      |               |                      | Filing Date                  |          | Group                           |                                     |
| Examiner      Unknown                                                                                                                                                                                                                     |     |                                                      |               |                      | HEREWITH                     |          | UNKNOWN                         |                                     |
| <b>U.S. Patent Documents</b>                                                                                                                                                                                                              |     |                                                      |               |                      |                              |          |                                 |                                     |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Document<br>Number                                   | Issue<br>Date | Applicant(s)<br>Name | Class                        | Subclass | Filing Date If<br>Appropriate   |                                     |
|                                                                                                                                                                                                                                           | A54 | 4,505,612                                            | 03/19/1985    | Shelley Jr.          | 405                          | 101      |                                 |                                     |
|                                                                                                                                                                                                                                           | A55 | 4,505,142                                            | 03/19/1985    | Kelly                | 72                           | 54       |                                 |                                     |
|                                                                                                                                                                                                                                           | A56 | 4,502,308                                            | 03/05/1985    | Kelly                | 72                           | 58       |                                 |                                     |
|                                                                                                                                                                                                                                           | A57 | 4,487,630                                            | 12/11/1984    | Crook et al.         | 75                           | 123      |                                 |                                     |
|                                                                                                                                                                                                                                           | A58 | 4,470,280                                            | 09/11/1984    | Kelly                | 72                           | 61       |                                 |                                     |
|                                                                                                                                                                                                                                           | A59 | 4,483,399                                            | 11/20/1984    | Colgate              | 166                          | 308      |                                 |                                     |
|                                                                                                                                                                                                                                           | A60 | 4,450,612                                            | 05/29/1984    | Kelly                | 72                           | 62       |                                 |                                     |
|                                                                                                                                                                                                                                           | A61 | 4,445,201                                            | 04/24/1984    | Pricer               | 365                          | 154      |                                 |                                     |
|                                                                                                                                                                                                                                           | A62 | 4,429,620                                            | 02/07/1984    | Burkhardt et al.     | 91                           | 395      |                                 |                                     |
|                                                                                                                                                                                                                                           | A63 | 4,414,739                                            | 11/15/1983    | Kelly                | 29                           | 727      |                                 |                                     |
|                                                                                                                                                                                                                                           | A64 | 4,407,150                                            | 10/04/1983    | Kelly                | 72                           | 61       |                                 |                                     |
|                                                                                                                                                                                                                                           | A65 | 4,387,502                                            | 06/14/1983    | Dom                  | 29                           | 568      |                                 |                                     |
|                                                                                                                                                                                                                                           | A66 | 4,382,379                                            | 05/10/1983    | Kelly                | 73                           | 46       |                                 |                                     |
| <b>Foreign Patent Documents</b>                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                                     |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Document<br>Number                                   | Date          | Country              | Class                        | Subclass | Translation                     |                                     |
|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          | YES                             | NO                                  |
|                                                                                                                                                                                                                                           | B21 | 792,886                                              | 04/02/1958    | UK                   | E21D                         | F06L     | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                           | B22 | 730,338                                              | 05/18/1955    | UK                   | 83(4)                        | E8D      | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                           | B23 | WO 00/37772                                          | 06/29/2000    | WIPO                 | E21B                         | 43/10    | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                           | B24 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/>            |
|                                                                                                                                                                                                                                           | B25 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/>            |
| <b>OTHER ART</b>                                                                                                                                                                                                                          |     |                                                      |               |                      |                              |          |                                 |                                     |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Including Author, Title, Date, Pertinent Pages, Etc. |               |                      |                              |          |                                 |                                     |
|                                                                                                                                                                                                                                           | C12 |                                                      |               |                      |                              |          |                                 |                                     |
|                                                                                                                                                                                                                                           | C13 |                                                      |               |                      |                              |          |                                 |                                     |
|                                                                                                                                                                                                                                           | C14 |                                                      |               |                      |                              |          |                                 |                                     |
| Examiner                                                                                                                                                                                                                                  |     |                                                      |               |                      | Date Considered              |          |                                 |                                     |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |     |                                                      |               |                      |                              |          |                                 |                                     |
| U.S. Department of Commerce, Patent and Trademark Office                                                                                                                                                                                  |     |                                                      |               |                      | Docket No.                   |          | Serial No.                      |                                     |
| (PTO Form 1449 modified)                                                                                                                                                                                                                  |     |                                                      |               |                      | WEAT/0023.C2                 |          | UNKNOWN                         |                                     |

|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------|---------------|----------------------|------------------------------|----------|---------------------------------|--------------------------|
| <b>LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b>                                                                                                                                                                                |     |                                                      |               |                      | Applicant<br>Metcalf, et al. |          | Confirmation<br>No.:<br>UNKNOWN |                          |
| (Use several sheets if necessary)                                                                                                                                                                                                         |     |                                                      |               |                      | Filing Date<br><br>HEREWITH  |          | Group<br><br>UNKNOWN            |                          |
|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                          |
| <b>U.S. Patent Documents</b>                                                                                                                                                                                                              |     |                                                      |               |                      |                              |          |                                 |                          |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Document<br>Number                                   | Issue<br>Date | Applicant(s)<br>Name | Class                        | Subclass | Filing Date If<br>Appropriate   |                          |
|                                                                                                                                                                                                                                           | A67 | 4,362,324                                            | 12/07/1982    | Kelly                | 285                          | 119      |                                 |                          |
|                                                                                                                                                                                                                                           | A68 | 4,359,889                                            | 11/23/1982    | Kelly                | 72                           | 62       |                                 |                          |
|                                                                                                                                                                                                                                           | A69 | 4,349,050                                            | 09/14/1982    | Bergstrom et al.     | 138                          | 147      |                                 |                          |
|                                                                                                                                                                                                                                           | A70 | 4,324,407                                            | 04/13/1982    | Upham et al.         | 277                          | 27       |                                 |                          |
|                                                                                                                                                                                                                                           | A71 | 4,319,393                                            | 03/16/1982    | Pogonowski           | 29                           | 434      |                                 |                          |
|                                                                                                                                                                                                                                           | A72 | 4,288,082                                            | 09/08/1981    | Setterberg, Jr.      | 277                          | 125      |                                 |                          |
|                                                                                                                                                                                                                                           | A73 | 4,159,564                                            | 07/03/1979    | Cooper, Jr.          | 29                           | 727      |                                 |                          |
|                                                                                                                                                                                                                                           | A74 | 4,127,168                                            | 11/28/1978    | Hanson et al.        | 166                          | 123      |                                 |                          |
|                                                                                                                                                                                                                                           | A75 | 4,069,573                                            | 01/24/1978    | Rogers, Jr. et al.   | 29                           | 421      |                                 |                          |
|                                                                                                                                                                                                                                           | A76 | 3,977,076                                            | 08/31/1976    | Vieira et al.        | 30                           | 103      |                                 |                          |
|                                                                                                                                                                                                                                           | A77 | 3,948,321                                            | 04/06/1976    | Owen et al.          | 166                          | 277      |                                 |                          |
|                                                                                                                                                                                                                                           | A78 | 3,911,707                                            | 10/14/1975    | Minakov et al.       | 72                           | 76       |                                 |                          |
|                                                                                                                                                                                                                                           | A79 | 3,820,370                                            | 06/28/1974    | Duffy                | 72                           | 75       |                                 |                          |
| <b>Foreign Patent Documents</b>                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                          |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Document<br>Number                                   | Date          | Country              | Class                        | Subclass | Translation                     |                          |
|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          | YES                             | NO                       |
|                                                                                                                                                                                                                                           | B26 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B27 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B28 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B29 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B30 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
| <b>OTHER ART</b>                                                                                                                                                                                                                          |     |                                                      |               |                      |                              |          |                                 |                          |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Including Author, Title, Date, Pertinent Pages, Etc. |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C15 |                                                      |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C16 |                                                      |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C17 |                                                      |               |                      |                              |          |                                 |                          |
| Examiner                                                                                                                                                                                                                                  |     |                                                      |               |                      | Date Considered              |          |                                 |                          |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |     |                                                      |               |                      |                              |          |                                 |                          |
| U.S. Department of Commerce, Patent and Trademark Office                                                                                                                                                                                  |     |                                                      |               |                      | Docket No.                   |          | Serial No.                      |                          |
| (PTO Form 1449 modified)                                                                                                                                                                                                                  |     |                                                      |               |                      | WEAT/0023.C2                 |          | UNKNOWN                         |                          |



|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------|---------------|----------------------|------------------------------|----------|---------------------------------|--------------------------|
| <b>LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b>                                                                                                                                                                                |     |                                                      |               |                      | Applicant<br>Metcalf, et al. |          | Confirmation<br>No.:<br>UNKNOWN |                          |
| (Use several sheets if necessary)                                                                                                                                                                                                         |     |                                                      |               |                      | Filing Date<br><br>HEREWITH  |          | Group<br><br>UNKNOWN            |                          |
|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                          |
| <b>U.S. Patent Documents</b>                                                                                                                                                                                                              |     |                                                      |               |                      |                              |          |                                 |                          |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Document<br>Number                                   | Issue<br>Date | Applicant(s)<br>Name | Class                        | Subclass | Filing Date If<br>Appropriate   |                          |
|                                                                                                                                                                                                                                           | A80 | 3,818,734                                            | 06/25/1974    | Bateman              | 72                           | 75       |                                 |                          |
|                                                                                                                                                                                                                                           | A81 | 3,785,193                                            | 01/15/1974    | Kinley et al.        | 72                           | 393      |                                 |                          |
|                                                                                                                                                                                                                                           | A82 | 3,780,562                                            | 12/25/1973    | Kinley               | 72                           | 479      |                                 |                          |
|                                                                                                                                                                                                                                           | A83 | 3,776,307                                            | 12/04/1973    | Young                | 166                          | 125      |                                 |                          |
|                                                                                                                                                                                                                                           | A84 | 3,746,091                                            | 07/17/1973    | Owen et al.          | 166                          | 207      |                                 |                          |
|                                                                                                                                                                                                                                           | A85 | 3,712,376                                            | 01/23/1973    | Owen et al.          | 166                          | 277      |                                 |                          |
|                                                                                                                                                                                                                                           | A86 | 3,691,624                                            | 09/19/1972    | Kinley               | 29                           | 523      |                                 |                          |
|                                                                                                                                                                                                                                           | A87 | 3,689,113                                            | 09/05/1972    | Blaschke             | 285                          | 90       |                                 |                          |
|                                                                                                                                                                                                                                           | A88 | 3,669,190                                            | 06/13/1972    | Sizer et al.         | 166                          | 315      |                                 |                          |
|                                                                                                                                                                                                                                           | A89 | 3,583,200                                            | 06/08/1971    | Cvijanovic et al.    | 72                           | 393      |                                 |                          |
|                                                                                                                                                                                                                                           | A90 | 3,489,220                                            | 01/13/1970    | Kinley               | 166                          | 277      |                                 |                          |
|                                                                                                                                                                                                                                           | A91 | 3,477,506                                            | 11/11/1969    | Malone               | 166                          | 207      |                                 |                          |
|                                                                                                                                                                                                                                           | A92 | 3,467,180                                            | 09/16/1969    | Pensotti             | 165                          | 180      |                                 |                          |
| <b>Foreign Patent Documents</b>                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          |                                 |                          |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Document<br>Number                                   | Date          | Country              | Class                        | Subclass | Translation                     |                          |
|                                                                                                                                                                                                                                           |     |                                                      |               |                      |                              |          | YES                             | NO                       |
|                                                                                                                                                                                                                                           | B31 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B32 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B33 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B34 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B35 |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
| <b>OTHER ART</b>                                                                                                                                                                                                                          |     |                                                      |               |                      |                              |          |                                 |                          |
| *Examiner<br>Initial                                                                                                                                                                                                                      |     | Including Author, Title, Date, Pertinent Pages, Etc. |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C18 |                                                      |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C19 |                                                      |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C20 |                                                      |               |                      |                              |          |                                 |                          |
| Examiner                                                                                                                                                                                                                                  |     |                                                      |               |                      | Date Considered              |          |                                 |                          |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |     |                                                      |               |                      |                              |          |                                 |                          |
| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified)                                                                                                                                                      |     |                                                      |               |                      | Docket No.<br>WEAT/0023.C2   |          | Serial No.<br>UNKNOWN           |                          |

|                                                                                                                                                                                                                                           |      |                                                      |               |                      |                              |          |                                 |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------|---------------|----------------------|------------------------------|----------|---------------------------------|--------------------------|
| <b>LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b>                                                                                                                                                                                |      |                                                      |               |                      | Applicant<br>Metcalf, et al. |          | Confirmation<br>No.:<br>UNKNOWN |                          |
| (Use several sheets if necessary)                                                                                                                                                                                                         |      |                                                      |               |                      | Filing Date                  |          | Group                           |                          |
|                                                                                                                                                                                                                                           |      |                                                      |               |                      | HEREWITH                     |          | UNKNOWN                         |                          |
|                                                                                                                                                                                                                                           |      | Examiner      Unknown                                |               |                      |                              |          |                                 |                          |
| <b>U.S. Patent Documents</b>                                                                                                                                                                                                              |      |                                                      |               |                      |                              |          |                                 |                          |
| *Examine<br>r Initial                                                                                                                                                                                                                     |      | Document<br>Number                                   | Issue<br>Date | Applicant(s)<br>Name | Class                        | Subclass | Filing Date If<br>Appropriate   |                          |
|                                                                                                                                                                                                                                           | A93  | 3,354,955                                            | 11/28/1967    | Berry                | 166                          | 14       |                                 |                          |
|                                                                                                                                                                                                                                           | A94  | 3,353,599                                            | 11/21/1967    | Swift                | 166                          | 15       |                                 |                          |
|                                                                                                                                                                                                                                           | A95  | 3,326,293                                            | 06/20/1967    | Skipper              | 166                          | 150      |                                 |                          |
|                                                                                                                                                                                                                                           | A96  | 3,297,092                                            | 01/10/1967    | Jennings             | 166                          | 207      |                                 |                          |
|                                                                                                                                                                                                                                           | A97  | 3,245,471                                            | 04/12/1966    | Howard               | 166                          | 46       |                                 |                          |
|                                                                                                                                                                                                                                           | A98  | 3,203,483                                            | 08/31/1965    | Vincent              | 166                          | 207      |                                 |                          |
|                                                                                                                                                                                                                                           | A99  | 3,203,451                                            | 08/31/1965    | Vincent              | 138                          | 143      |                                 |                          |
|                                                                                                                                                                                                                                           | A100 | 3,195,646                                            | 07/20/1965    | Brown                | 166                          | 208      |                                 |                          |
|                                                                                                                                                                                                                                           | A101 | 3,191,680                                            | 06/29/1965    | Vincent              | 166                          | 46       |                                 |                          |
|                                                                                                                                                                                                                                           | A102 | 3,191,677                                            | 06/29/1965    | Kinley               | 166                          | 14       |                                 |                          |
|                                                                                                                                                                                                                                           | A103 | 3,186,485                                            | 06/01/1965    | Owen                 | 166                          | 63       |                                 |                          |
|                                                                                                                                                                                                                                           | A104 | 3,179,168                                            | 04/20/1965    | Vincent              | 166                          | 14       |                                 |                          |
|                                                                                                                                                                                                                                           | A105 | 3,167,122                                            | 01/26/1965    | Lang                 | 166                          | 14       |                                 |                          |
| <b>Foreign Patent Documents</b>                                                                                                                                                                                                           |      |                                                      |               |                      |                              |          |                                 |                          |
| *Examiner<br>Initial                                                                                                                                                                                                                      |      | Document<br>Number                                   | Date          | Country              | Class                        | Subclass | Translation                     |                          |
|                                                                                                                                                                                                                                           |      |                                                      |               |                      |                              |          | YES                             | NO                       |
|                                                                                                                                                                                                                                           | B36  |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B37  |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B38  |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B39  |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B40  |                                                      |               |                      |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
| <b>OTHER ART</b>                                                                                                                                                                                                                          |      |                                                      |               |                      |                              |          |                                 |                          |
| *Examiner<br>Initial                                                                                                                                                                                                                      |      | Including Author, Title, Date, Pertinent Pages, Etc. |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C21  |                                                      |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C23  |                                                      |               |                      |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C24  |                                                      |               |                      |                              |          |                                 |                          |
| Examiner                                                                                                                                                                                                                                  |      |                                                      |               |                      | Date Considered              |          |                                 |                          |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |      |                                                      |               |                      |                              |          |                                 |                          |
| U.S. Department of Commerce, Patent and Trademark Office                                                                                                                                                                                  |      |                                                      |               |                      | Docket No.                   |          | Serial No.                      |                          |
| (PTO Form 1449 modified)                                                                                                                                                                                                                  |      |                                                      |               |                      | WEAT/0023.C2                 |          | UNKNOWN                         |                          |

|                                                                                                                                                                                                                                           |      |                                                      |               |                      |                 |                              |                               |                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------|---------------|----------------------|-----------------|------------------------------|-------------------------------|---------------------------------|--|
| <b>LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b>                                                                                                                                                                                |      |                                                      |               |                      |                 | Applicant<br>Metcalf, et al. |                               | Confirmation<br>No.:<br>UNKNOWN |  |
| (Use several sheets if necessary)                                                                                                                                                                                                         |      |                                                      |               |                      |                 | Filing Date<br><br>HEREWITH  |                               | Group<br><br>UNKNOWN            |  |
|                                                                                                                                                                                                                                           |      |                                                      |               |                      |                 |                              |                               |                                 |  |
| <b>U.S. Patent Documents</b>                                                                                                                                                                                                              |      |                                                      |               |                      |                 |                              |                               |                                 |  |
| *Examine<br>r Initial                                                                                                                                                                                                                     |      | Document<br>Number                                   | Issue<br>Date | Applicant(s)<br>Name | Class           | Subclass                     | Filing Date If<br>Appropriate |                                 |  |
|                                                                                                                                                                                                                                           | A106 | 3,087,546                                            | 04/30/1963    | Woolley              | 166             | 46                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A107 | 3,039,530                                            | 06/19/1962    | Condra               | 166             | 55                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A108 | 3,028,915                                            | 04/10/1962    | Jennings             | 166             | 46                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A109 | 2,898,971                                            | 08/11/1959    | Hempel               | 153             | 82                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A110 | 2,663,073                                            | 12/22/1953    | Bieber et al.        | 29              | 148                          |                               |                                 |  |
|                                                                                                                                                                                                                                           | A111 | 2,633,374                                            | 03/31/1953    | Boice                | 285             | 118                          |                               |                                 |  |
|                                                                                                                                                                                                                                           | A112 | 2,627,891                                            | 02/10/1953    | Clark                | 153             | 82                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A113 | 2,519,116                                            | 08/15/1950    | Crake                | 166             | 10                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A114 | 2,499,630                                            | 03/07/1950    | Clark                | 153             | 81                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A115 | 2,424,878                                            | 07/29/1947    | Crook                | 154             | 82                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A116 | 2,216,226                                            | 10/01/1940    | Bumpous              | 36              | 44                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A117 | 2,383,214                                            | 08/21/1945    | Prout                | 153             | 82                           |                               |                                 |  |
|                                                                                                                                                                                                                                           | A118 | 2,214,226                                            | 09/10/1940    | English              | 166             | 1                            |                               |                                 |  |
| <b>Foreign Patent Documents</b>                                                                                                                                                                                                           |      |                                                      |               |                      |                 |                              |                               |                                 |  |
| *Examiner<br>Initial                                                                                                                                                                                                                      |      | Document<br>Number                                   | Date          | Country              | Class           | Subclass                     | Translation                   |                                 |  |
|                                                                                                                                                                                                                                           |      |                                                      |               |                      |                 |                              | YES                           | NO                              |  |
|                                                                                                                                                                                                                                           | B41  |                                                      |               |                      |                 |                              | <input type="checkbox"/>      | <input type="checkbox"/>        |  |
|                                                                                                                                                                                                                                           | B42  |                                                      |               |                      |                 |                              | <input type="checkbox"/>      | <input type="checkbox"/>        |  |
|                                                                                                                                                                                                                                           | B43  |                                                      |               |                      |                 |                              | <input type="checkbox"/>      | <input type="checkbox"/>        |  |
|                                                                                                                                                                                                                                           | B44  |                                                      |               |                      |                 |                              | <input type="checkbox"/>      | <input type="checkbox"/>        |  |
|                                                                                                                                                                                                                                           | B45  |                                                      |               |                      |                 |                              | <input type="checkbox"/>      | <input type="checkbox"/>        |  |
| <b>OTHER ART</b>                                                                                                                                                                                                                          |      |                                                      |               |                      |                 |                              |                               |                                 |  |
| *Examiner<br>Initial                                                                                                                                                                                                                      |      | Including Author, Title, Date, Pertinent Pages, Etc. |               |                      |                 |                              |                               |                                 |  |
|                                                                                                                                                                                                                                           | C25  |                                                      |               |                      |                 |                              |                               |                                 |  |
|                                                                                                                                                                                                                                           | C26  |                                                      |               |                      |                 |                              |                               |                                 |  |
|                                                                                                                                                                                                                                           | C27  |                                                      |               |                      |                 |                              |                               |                                 |  |
| Examiner                                                                                                                                                                                                                                  |      |                                                      |               |                      | Date Considered |                              |                               |                                 |  |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |      |                                                      |               |                      |                 |                              |                               |                                 |  |
| U.S. Department of Commerce, Patent and Trademark Office                                                                                                                                                                                  |      |                                                      |               |                      | Docket No.      |                              |                               | Serial No.                      |  |
| (PTO Form 1449 modified)                                                                                                                                                                                                                  |      |                                                      |               |                      | WEAT/0023.C2    |                              |                               | UNKNOWN                         |  |

|                                                                                                                                                                                                                                           |      |                                                      |            |                   |                              |          |                                 |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------|------------|-------------------|------------------------------|----------|---------------------------------|--------------------------|
| <b>LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT</b>                                                                                                                                                                                |      |                                                      |            |                   | Applicant<br>Metcalf, et al. |          | Confirmation<br>No.:<br>UNKNOWN |                          |
| (Use several sheets if necessary)                                                                                                                                                                                                         |      |                                                      |            |                   | Filing Date<br><br>HEREWITH  |          | Group<br><br>UNKNOWN            |                          |
|                                                                                                                                                                                                                                           |      |                                                      |            |                   |                              |          |                                 |                          |
| <b>U.S. Patent Documents</b>                                                                                                                                                                                                              |      |                                                      |            |                   |                              |          |                                 |                          |
| *Examiner Initial                                                                                                                                                                                                                         |      | Document Number                                      | Issue Date | Applicant(s) Name | Class                        | Subclass | Filing Date If Appropriate      |                          |
|                                                                                                                                                                                                                                           | A119 | 2,017,451                                            | 10/15/1935 | Wickersham        | 166                          | 10       |                                 |                          |
|                                                                                                                                                                                                                                           | A120 | 1,981,525                                            | 11/20/1934 | Price             | 166                          | 4        |                                 |                          |
|                                                                                                                                                                                                                                           | A121 | 1,930,825                                            | 10/17/1933 | Raymond           | 153                          | 81       |                                 |                          |
|                                                                                                                                                                                                                                           | A122 | 1,880,218                                            | 10/04/1932 | Simmons           |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A123 | 1,597,212                                            | 08/24/1926 | Spengler          |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A124 | 1,569,729                                            | 01/12/1926 | Duda              |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A125 | 1,561,418                                            | 11/10/1925 | Duda              |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A126 | 1,545,039                                            | 07/07/1925 | Deavers           |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A127 | 1,324,303                                            | 12/09/1919 | Carmichael        |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A128 | 1,301,285                                            | 04/22/1919 | Leonard           |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A129 | 988,054                                              | 03/28/1911 | Wiet              |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A130 | 761,518                                              | 05/31/1904 | Lykken            |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A131 | 2001/0040054                                         | 11/15/2001 | Haugen et al.     |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | A132 | 2002/0166668                                         | 11/14/2002 | Metcalf et al.    |                              |          |                                 |                          |
| <b>Foreign Patent Documents</b>                                                                                                                                                                                                           |      |                                                      |            |                   |                              |          |                                 |                          |
| *Examiner Initial                                                                                                                                                                                                                         |      | Document Number                                      | Date       | Country           | Class                        | Subclass | Translation                     |                          |
|                                                                                                                                                                                                                                           |      |                                                      |            |                   |                              |          | YES                             | NO                       |
|                                                                                                                                                                                                                                           | B46  |                                                      |            |                   |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B47  |                                                      |            |                   |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B48  |                                                      |            |                   |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B49  |                                                      |            |                   |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
|                                                                                                                                                                                                                                           | B50  |                                                      |            |                   |                              |          | <input type="checkbox"/>        | <input type="checkbox"/> |
| <b>OTHER ART</b>                                                                                                                                                                                                                          |      |                                                      |            |                   |                              |          |                                 |                          |
| *Examiner Initial                                                                                                                                                                                                                         |      | Including Author, Title, Date, Pertinent Pages, Etc. |            |                   |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C28  |                                                      |            |                   |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C29  |                                                      |            |                   |                              |          |                                 |                          |
|                                                                                                                                                                                                                                           | C30  |                                                      |            |                   |                              |          |                                 |                          |
| Examiner                                                                                                                                                                                                                                  |      |                                                      |            |                   | Date Considered              |          |                                 |                          |
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant. |      |                                                      |            |                   |                              |          |                                 |                          |